List of Contents

NUMBER 1

Tony Lin and **Michael D. Holbrook**	1	Reliability demonstration test and OC curves for attribute data
Hsiang-Kuan Kung and **Chaweng Changchit**	17	A just-in-time simulation model of a PCB assembly line
Robert W. Klein and **Paul M. Baris**	27	Selecting and generating variates for modeling service times
Li Zhuang and **Khalil S. Hindi**	35	Approximate MVA for closed queueing network models of FMS with a block-and-wait mechanism
D. Ben-Arieh and **I. Miron**	45	Concurrent modeling and simulation of reactive manufacturing systems using Petri nets
Reha Uzsoy, **David J. Ramcharan** and **Louis A. Martin-Vega**	59	An experimental expert system for process planning of sheet-metal parts
Peter H. Christian	71	Capital tracking and project control
Houn-Gee Chen	77	A mixed integer programming model for operator cyclic walking pattern development in GT cells
Feraidoon (Fred) Raafat, **Philip M. Wolfe** and **Hamed K. Eldin**	89	An inventory model for deteriorating items
Rashpal S. Ahluwalia and **Ping Ji**	95	A distributed approach to job scheduling in a flexible manufacturing system
Reuven R. Levary and **Michael D. Renfro**	105	Application of assembly line balancing techniques to installment lending operations of commercial banks
K. Raja Gunasingh and **R. S. Lashkari**	111	Simultaneous grouping of parts and machines in cellular manufacturing systems—an integer programming approach
Nourredine Boubekri, **Majid Sahoui** and **Chabane Lakrib**	119	Development of an expert system for industrial robot selection
Taeho Park and **Harold J. Steudel**	129	Analysis of heuristics for job sequencing in manufacturing flow line work-cells
Hark Hwang and **Dug Hee Moon**	141	A production inventory model for producing two-products at a single facility with deteriorating raw materials
Kyung Mo Kim and **Hark Hwang**	149	The integrated production inventory model with a powers-of-two restriction
Mehmet Savsar	155	Flexible facility layout by simulation

NUMBER 2

F. Robert Jacobs, Kieran Mathieson, John F. Muth and **Terence M. Hancock**	167	A rule-based system to generate NC programs from CAD exchange files
Abdolazim Houshyar	177	Computer aided facility layout: an interactive multi-goal approach
Kheng Joo Heng, Jihad Labban and **Richard J. Linn**	187	An order-level lot-size inventory model for deteriorating items with finite replenishment rate
Celal Batur and **Vicken Kasparian**	199	Predictive fuzzy expert controllers
Kenneth E. Cambron and **Gerald W. Evans**	211	Layout design using the analytic hierarchy process
Tung-Hsu (Tony) Hou and **Hsu-Pin (Ben) Wang**	231	Integration of a CAPP system and an FMS
Bala Shetty	243	Reoptimization procedures for networks with side constraints
John R. English, Murali Krishnamurthi and **Tep Sastri**	251	Quality monitoring of continuous flow processes
Jen-Gwo Chen, Robert E. Schlegel and **J. Brian Peacock**	261	A computer-assisted system for physical ergonomics analysis
A. K. Jain, R. G. Kasilingam and **S. D. Bhole**	271	Joint consideration of cell formation and tool provisioning problems in flexible manufacturing systems
Mansour Rahimi and **Xia Xiadong**	279	A framework for software safety verification of industrial robot operations
Technical Note **Harish C. Bahl** and **Shahram Taj**	289	A data-dependent efficient implementation of the Wagner–Whitin algorithm for lot-sizing

NUMBER 3

Suna Kondakci and **Rajiv M. Gupta**	293	An interactive approach for a dual-constraint job shop scheduling problem
Yosef S. Sherif and **Roger G. Dear**	303	A Pascal simulation model for the analysis of queueing systems
Thomas L. Ward, Patricia A. S. Ralston and **Denise J. C. Stottmann**	313	Continuous-time simulation of metal cutting on a lathe

Vincent K. Omachonu and **Ravinder Nanda**	323	Model-based hospital productivity information management
Thomas A. Lacksonen and **Catherine M. Harmonosky**	335	Evaluation of different simulation approaches for modeling a custom build assembly line
S. M. Taboun, S. Sankaran and **S. Bhole**	343	Comparison and evaluation of similarity measures in group technology
Lian Wang and **Tzvi Raz**	355	Analytic hierarchy process based on data flow diagram
Bum-il Lee, Nam-kee Chung and **Dong-wan Tcha**	367	A parallel algorithm and duality for a fuzzy multi-objective linear fractional programming problem
Nuray M. Aykin and **Turgut Aykin**	373	Individual differences in human–computer interaction: a survey
M. Khattab and **F. Choobineh**	381	A new heuristic for project scheduling with a single resource constraint
Adedeji B. Badiru	389	STARC 2.0: an improved PERT network simulation tool

NUMBER 4

Sabah U. Randhawa, Edward D. McDowell and **Wen-Tsao Wang**	401	Evaluation of scheduling rules for single- and dual-dock automated storage/retrieval system
Bong-Jin Yum and **Seung-Hoon Lee**	411	Calibration procedures when both measurements are subject to error: a comparative simulation study of the unreplicated case
S. S. Panwalker	421	A note on generation of V-shaped sequences
Y. Kao and **Y. B. Moon**	425	An unified group technology implementation using the backpropagation learning rule of neural networks
Rasaratnam Logendran	439	Effect of the identification of key machines in the cell formation problem of cellular manufacturing systems
Ji Soo Kim and **Byoung Nam Lee**	451	Equivalent mathematical programming models of the capital budgeting problem
Tarun Gupta	461	Clustering algorithms for the design of a cellular manufacturing system—an analysis of their performance
N. Singh and **Divakar Rajamani**	469	An incremental cost and resource smoothing heuristic for the capacitated lot sizing problem
Carlos Alberto Fernandes and **Fernando A. C. Gomide**	475	A heuristic procedure for production planning of modern manufacturing systems